SEQUENCE LISTING

PCT/GB99/01388 09/674733 529 Rec'd PCT/PTC 0 6 NOV 2000

<110> Wa Pharm AB

<120> Melanocortin 1 receptor selective compounds

<130> MS-Patent

<140>

<141>

<150> SE 9801571-2

<151> 1998-05-05

<160> 15

<170> PatentIn Ver. 2.1

<210> 1

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

<220>

<221> MOD RES

<222> (13)

<223> -AMIDATION-

<400> 1

Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val 10-

<210> 2

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

```
<220>
<221> MOD RES
<222> (7)
<223> D amino-acid
<220>
<221> MOD_RES
<222> (13)
<223> AMIDATION
<400>-2
Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val
                                      10
<210> 3
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      peptide with high affinity for melanocortin
      receptor 1
<220>
<221> MOD RES
<222> (14)
<223> AMIDATION
Tyr Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val
                                    10
                  5
<210> 4
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
```

<220>
<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

<220> <221> MOD_RES <222> (13)

```
<223> AMIDATION
<400> 4
Tyr Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val
                                      10
<210> 5
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     peptide with high affinity for melanocortin
     receptor 1
<220>
<221> MOD RES
<222> (14)
<223> AMIDATION
<400> 5
Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val Tyr
                                      10
 1
<210> 6
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     peptide with high affinity for melanocortin
     receptor 1
```

<220>

<221> MOD_RES

<222> (12)

<223> AMIDATION

<400> 6

Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val

<210> 7

WO 99/57148

<220>

<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

<220>

<221> MOD RES

<222> (13)

<223> AMIDATION

<400> 7

Thr Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val 10 1 5

<210> 8

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

<220>

<221> MOD RES

<222> (13) - - -

<223> AMIDATION

<400> 8

Ser-Thr Ile Ile Ser His Phe Arg Trp-Gly Lys Pro Val-10 1

<210> 9

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

```
<220>
```

<221> MOD RES

<222> (13)

<223> AMIDATION

<400> 9

Ser Ser Val Ile Ser His Phe Arg Trp Gly Lys Pro Val

<210> 10

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

<220>

<221> MOD RES

<222> (13)

<223> AMIDATION

<400> 10

Ser Ser Ile Val Ser His Phe Arg Trp Gly Lys Pro Val

<210> 11

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide with high affinity for melanocortin
 receptor 1

<220>

<221> MOD RES

<222> (13)

<223> AMIDATION

<220>

<221> MOD RES

```
<222> (1)
```

<223> ACETYLATION

<400> 11

Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val

- <210> 12
- <211> 13
- <212> PRT
- <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide with high affinity for melanocortin receptor 1

- <220>
- <221> MOD_RES
- <222> (13)
- <223> AMIDATION
- <220>
- <221> MOD RES
- <222> (1)
- <223> D amino-acid

<400> 12

Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val

- <210> 13
- <211> 13
- <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide with high affinity for melanocortin
 receptor 1

- <220>
- <221> MOD RES
- <222> (13)
- <223> AMIDATION

```
WO 99/57148
<220>
<221> MOD_RES
<222> (1)
<223> N-methyl-L-serine
<400> 13
Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val
<210> 14
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      peptide with high affinity for melanocortin
      receptor 1
<220>
<221> MOD RES
```

10

<222> (13) <223> AMIDATION <220> <221> MOD RES <222> (13) <223> N-methyl-L-valine <400> 14

Ser Ser-Ile-Ile Ser His Phe Arg Trp Gly Lys Pro Val

```
<211> 13
<212> PRT
<213> Artificial Sequence
`<220>
<223> Description of Artificial Sequence: Synthetic
      peptide with high affinity for melanocortin
      receptor 1
<220>
```

<221> MOD_RES <222> (13)

<210> 15

WO 99/57148 PCT/GB99/01388

<223> AMIDATION

<220>

<221> MOD_RES

<222> (7)

<223> N-methyl-D-phenylalanine

<400> 15

Ser Ser Ile Ile Ser His Phe Arg Trp Gly Lys Pro Val

1

1.0